

DERWENT-ACC-NO: 1985-228310  
DERWENT-WEEK: 198537  
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TITLE: Component feeder unit splitter - is pivoting lever carrying sprung pawl, switch and locking element interacting with plate lifting mechanism

INVENTOR: NOVOKSHANO, V A

PATENT-ASSIGNEE: PAVLODAR AUTO MECH [PAVLR]

PRIORITY-DATA:  
1983SU-3657023 (October 28, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
SU 1139611 A	February 15, 1985	N/A
006	N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
SU 1139611A	N/A	1983SU-3657023
October 28, 1983		

INT-CL (IPC): B23Q007/00  
ABSTRACTED-PUB-NO: SU 1139611A

BASIC-ABSTRACT:

Splitter comprises a housing with a pivoting lever on which the locking element and spring loaded pawl (25) and switch (23) are mounted. The locking element interacts with the plate (15) on which the splitter is mounted. The lever acts via the pawl on the stop and the switch interacts with the plate lifting mechanism (11). The locking element is a wedge (33) mounted on the splitter plate and acting on the lever.

USE/ADVANTAGE - In assembly line feeders. Simpler design of the lifting and locking mechanism resulting in reduced unit size and metal content. Separate construction of the splitter improves repairability.  
Bul.6/15.2.85

CHOSEN-DRAWING: Dwg.2/5

DERWENT-CLASS: P56

US-PAT-NO: 6178620  
DOCUMENT-IDENTIFIER: US 6178620 B1

TITLE: Electronic component feeding apparatus

DATE-ISSUED: January 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP
CODE COUNTRY			
Yoshida; Yoshihiro JP	Neyagawa	N/A	N/A
Hata; Kanji JP	Katano	N/A	N/A
Kitamura; Naoyuki JP	Hirakata	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP
CODE COUNTRY TYPE CODE			
Matsushita Electric JP 03	Osaka-fu	N/A	N/A
Industrial Co., Ltd.			

APPL-NO: 08/ 893104

DATE FILED: July 15, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	8-190604	July 19, 1996

INT-CL: [ 07] H05K003/30

US-CL-ISSUED: 29/740;29/741 ;29/832

US-CL-CURRENT: 29/740; 29/741 ; 29/832

FIELD-OF-SEARCH: 29/832; 29/840 ; 29/740 ; 29/564.1 ;  
29/564 ; 29/569.2  
; 29/741

REF-CITED:

U.S. PATENT DOCUMENTS		
PAT-NO	ISSUE-DATE	PATENTEE-NAME

US-CL

<u>4438559</u>	March 1984	Asai et al.
29/740	<u>N/A</u>	N/A
4610083	September 1986	<u>Campisi</u> et al.
N/A	29/740	N/A
<u>4670976</u>	June 1987	Stridsberg et al.
29/740	<u>N/A</u>	N/A
4768915	September 1988	<u>Fujioka</u>
N/A	29/740	N/A
<u>4952113</u>	August 1990	Fujioka
N/A	<u>29/740</u>	N/A
5299902	April 1994	<u>Fujiwara</u> et al.
N/A	29/740	N/A
<u>5539977</u>	July 1996	Kano et al.
N/A	<u>29/740</u>	N/A
5628107	May 1997	<u>Nushiyama</u> et al.
29/740	N/A	N/A

ART-UNIT: 379

PRIMARY-EXAMINER: Rosenbaum; I Cuda

ASSISTANT-EXAMINER: Chang; Rick Kiltae

ABSTRACT:

A transmission mechanism includes a pressing stroke controller for changing the effective pressing stroke of each feed lever of a component feeder unit corresponding to a predetermined pitch of carrying electronic components in respective component feeder unit, whereby the vibration generated when the transmission mechanism is in operation is reduced. Adverse effects on a component feeder unit having small components thereon at a fine pitch which is susceptible to the vibration will be prevented, and the feeding speed can be increased to be more productive.

21 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

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